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Reservoir
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Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
Jan. 1, 1982

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Lone Cone, near Norwood, Colorado, blanketed by its winter mantle of snow.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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ADMINISTRATOR
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Released by

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WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR JANUARY 1, 1982

The January 1, 1982 snow surveys indicate a near normal to well above normal snowpack throughout the state. The exceptions are the Weiser River drainage which is only 71 percent of average and the Spokane River drainage in northern Idaho which is 79 percent of average. The Priest River in north Idaho and the Beaver-Camas Creek drainage east of Dubois are near normal with 87 percent and 98 percent respectively. All other drainages in the State are above to well above normal ranging from 103 percent on the Clearwater River to 192 percent on the Jordan Creek drainage.

Although late summer conditions were very dry, soil moisture conditions throughout the State appear to be near normal as precipitation across Idaho has been well above normal for both December and the water year which began October 1. December's average was 159 percent of normal with a range from near normal in northern Idaho to over 200 percent in southern Idaho.

For the water year we stand at 150 percent with the distribution across the state similar to December. The precipitation has fallen as snow across Idaho except for the heavy rain which fell in southwestern Idaho around the week end of the 20th.

Temperatures across the state were near normal for December. Heavy snow has insulated the ground in most areas, including the mountains and the soil is not frozen or is not frozen very deep.

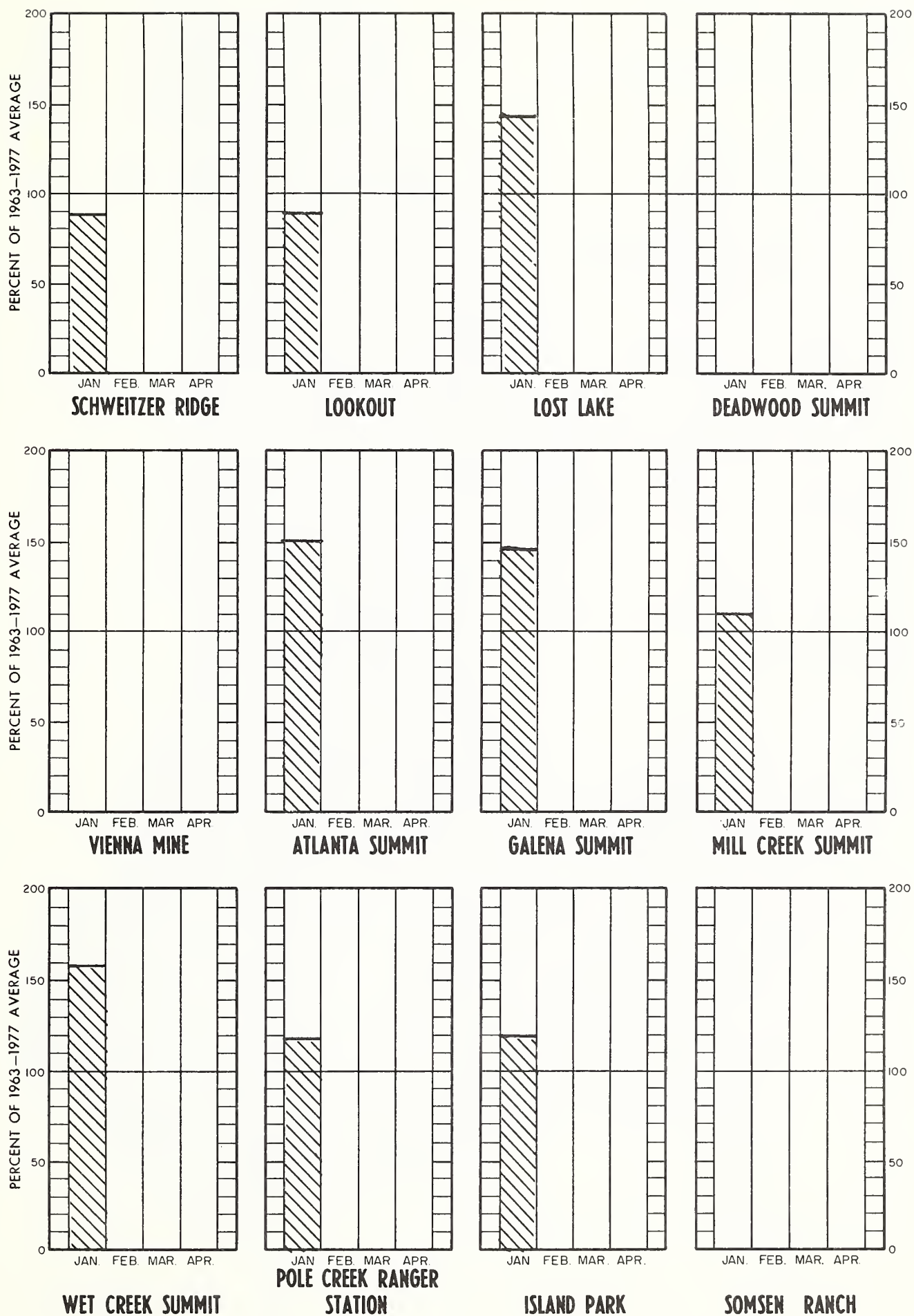
Currently, reservoir carry over storage is below normal in most reservoirs, ranging from a low of 37 percent of normal in Lucky Peak to a high of 117 percent in Cascade Lake. However, if the present trend continues, most reservoirs should fill and natural flows should hold up well into the summer of 1982.

Due to adverse weather conditions, measurements of some scheduled snow courses were delayed or cancelled.

SNOW WATER DEPTHS ACCUMULATION For Selected Snow Courses

As Compared To 1963 - 1977 15 Year Average

JANUARY 1, 1982



COMPARISON of SNOW COVER

RIVER BASIN WATERSHED	NO.OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River	18	78	77
Pend Oreille River	64	121	87
Clark Fork River	51	146	94
Flathead River	13	86	73
Priest River	4	109	87
Spokane River	3 - 5	164	79
<u>LOWER SNAKE RIVER BASIN</u>			
Clearwater River	9 - 13	192	103
Salmon River	8	140	121
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	5 - 6	144	160
Big Lost River	3	157	--
Little Wood River	4 - 3	126	108
Big Wood River	5 - 8	174	155
Boise River	8 + 9	209	141
Payette River	9	147	120
Weiser River	1	88	71
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	1	415	186
Salmon Falls Creek	4	264	136
Bruneau River	1	270	119
Owyhee	4	288	147
Jordan Creek	1	333	192
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Above Palisades Reservoir	15	191	138
Camas-Beaver Creeks	2	101	98
Henrys Fork River	7	158	125
Teton River	3	184	134
<u>GREAT BASIN</u>			
Bear River - Upper	3	393	179
Bear River - Lower	4	380	173
Montpelier Creek	2	386	165
Mink Creek	1	305	136

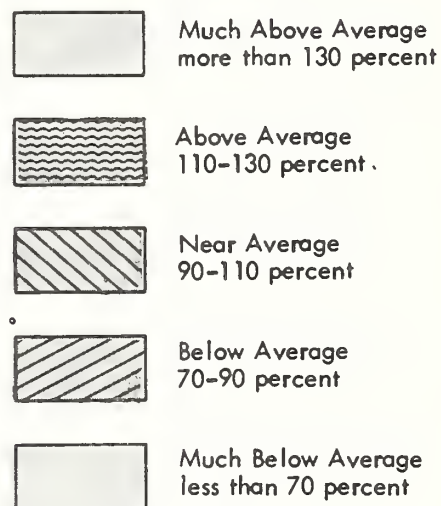
SNOW WATER DEPTHS
As percent of 1963 - 77 15 year average

JANUARY 1, 1982

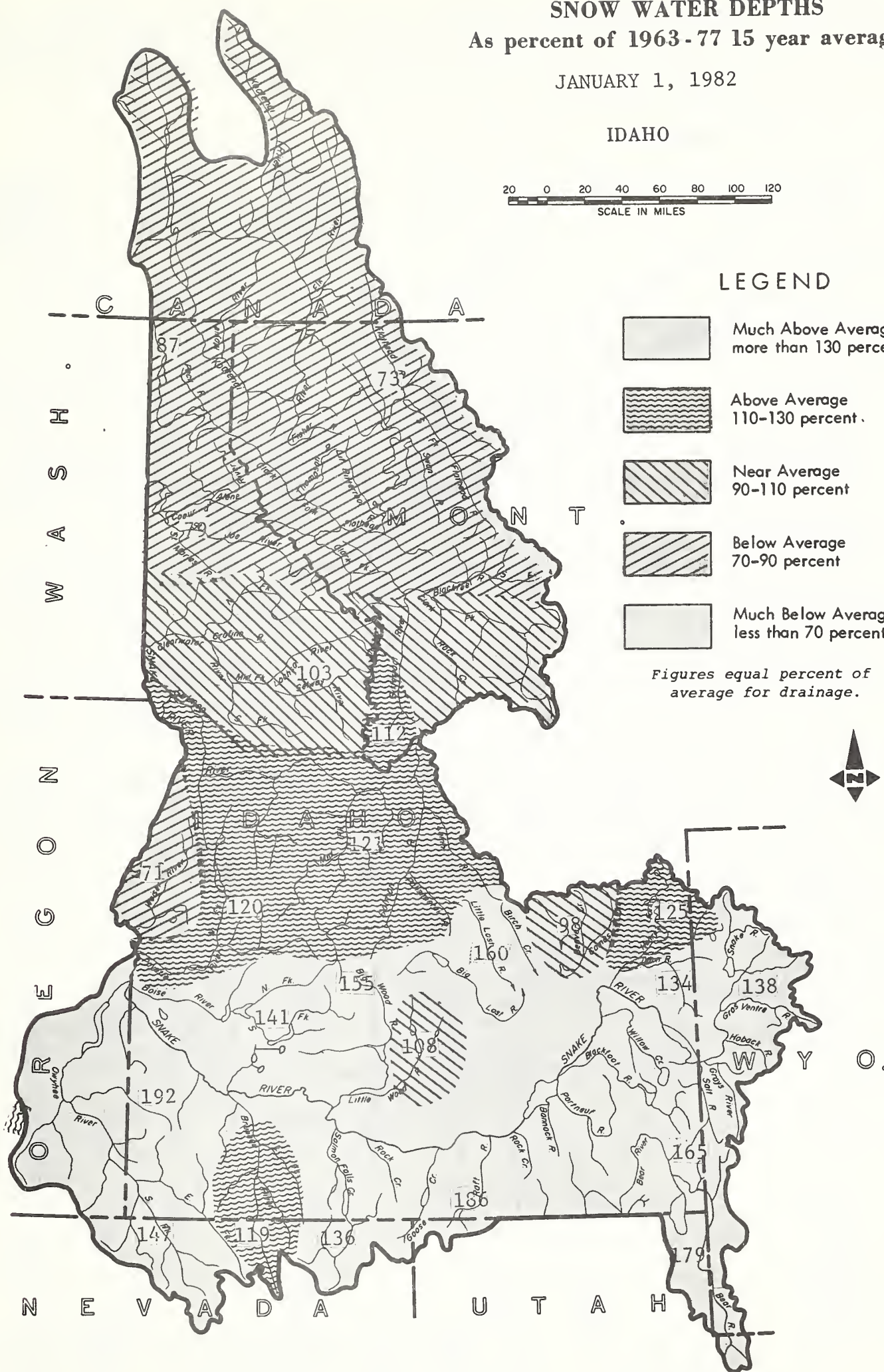
IDAHO



LEGEND



Figures equal percent of
average for drainage.



RESERVOIR STORAGE (1,000 Ac. Ft.)

RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
UPPER COLUMBIA BASIN				
Clark Fork - Pend Oreille				
Hungry Horse	3428.0	2603.0	2833.0	2624.0
Flathead	1791.0	1171.0	1408.0	1428.0
Pend Oreille	1155.1	133.3	647.5	331.1
Noxon	334.6	322.8	308.2	318.7
Spokane				
Coeur d'Alene	225.1	82.5	--	129.9
SNAKE BASIN				
Snake				
Jackson Lake	624.4	511.9	545.7	599.7
Palisades	1200.0	555.9	970.2	897.8
American Falls	1673.0	795.1	1153.1	1019.3
Island Park	127.0	78.9	106.2	92.4
Grassy Lake	15.2	*Est. 12.3	12.2	10.1
Brownlee	980.2	774.0	901.7	808.1
Goose-Trapper Creeks				
Oakley	74.4	8.6	25.0	23.5
Salmon Falls Creek				
Salmon Falls	182.6	14.2	51.2	45.7
Big Lost				
Mackay	44.2	Unavailable	36.0	26.7
Big Wood				
Magic	191.5	60.0	104.0	98.4
Little Wood				
Little Wood	30.0	10.5	18.7	14.0
Fish Creek				
Carey Valley	14.4	2.6	4.8	--
Boise				
Anderson Ranch	423.2	334.7	287.6	301.1
Arrowrock	286.6	192.7	148.1	216.8
Lucky Peak	278.2	19.8	223.9	53.1
Lake Lowell (Deer Flat)	169.0	103.4	121.0	116.1
Owyhee				
Owyhee	715.0	381.7	500.8	405.5
Payette				
Cascade	653.2	443.8	451.5	379.0
Deadwood	161.9	79.7	101.6	74.3
Weiser				
Mann Creek	11.1	5.6	4.6	--
Clearwater				
Dworshak	2016.0	1203.0	1343.0	--
GREAT BASIN				
Bear				
Bear Lake	1421.0	882.5	1059.0	971.8

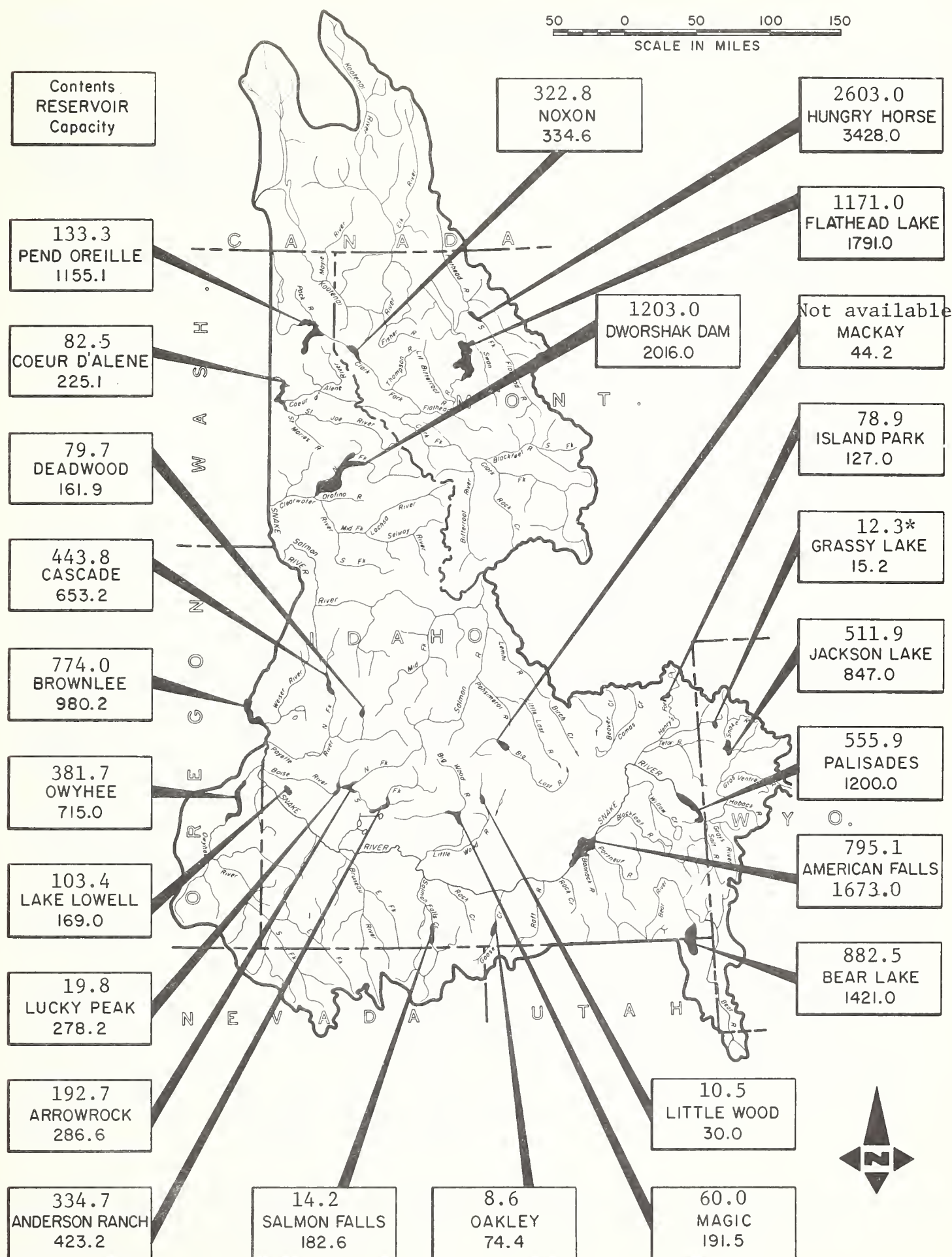
*Estimated

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1, 1982

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁺

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonia	(at)	8490	96	Apr-Sep	7941	8858
		7350	96	Apr-Jul	6601	7708
		5900	96	Apr-Jun	4573	6114

PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	12000	87	Apr-Sep	--	13781
		10900	87	Apr-Jul	--	12519
		9250	87	Apr-Jun	--	10633

Priest River

Priest River <u>1</u> /	(at)	791	94	Apr-Jul	--	841
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SPOKANE RIVER

Post Falls <u>2</u> /	(at)	2330	80	Apr-Sep	--	2910
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St. Joe River

Calder	(at)	1050	80	Apr-Sep	--	1309
		990	80	Apr-Jul	--	1238

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran <u>3</u> /	(at)	1300	144	Apr-Sep	--	903
Palisades Inflow <u>3</u> /		5640	146	Apr-Sep	--	3863
Heise <u>4</u> /	(nr)	6070	143	Apr-Sep	--	4247
Blackfoot <u>5</u> /	(nr)	5950	130	Apr-Jul	--	4579

Henrys Fork

Ashton <u>6</u> /	(nr)	825	112	Apr-Sep	--	737
Rexburg <u>7</u> /	(nr)	1670	110	Apr-Sep	--	1534

Salmon Falls Creek

San Jacinto	(nr)	107	113	Mar-Sep	--	95
		102	113	Mar-Jul	--	90

Bruneau River

Hot Springs	(nr)	280	112	Mar-Sep	--	251
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Little Lost River

Howe	(nr)	47	104	Apr-Sep	--	45
		27	104	Apr-Jun	--	26
		42.5	104	Apr-Sep	--	41

(c) Assuming normal meteorological conditions.

+ 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT		THIS YEAR			PAST RECORD	
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]
<u>Big Lost River</u>						
Howell Ranch	(at)	250	112	Apr-Sep	--	225
		170	112	Apr-Jun	--	154
Mackay <u>8/</u>	(nr)	225	110	Apr-Sep	--	204
<u>Big Wood River</u>						
Magic Reservoir		415	130	Apr-Sep	--	319
Inflow <u>9/</u>		430	129	Mar-Jul	--	332
<u>Little Wood River</u>						
Carey <u>10/</u>	(nr)	111	104	Apr-Sep	--	107
		92	106	Apr-Jun	--	87
<u>Boise River</u>						
Twin Springs	(nr)	900	123	Apr-Sep	--	733
		815	121	Apr-Jul	--	676
Boise <u>11/</u>	(nr)	2000	121	Apr-Sep	--	1656
		1650	121	Apr-Jun	--	1360
		1860	121	Apr-Jul	--	1536
<u>South Fork</u>						
Anderson Dam <u>12/</u>	(at)	755	121	Apr-Sep	--	622
<u>Owyhee River</u>						
Gold Cr., Nev. <u>13/</u>	(nr)	25	109	Apr-Jul	--	23
Owyhee, Nev. <u>13/</u>	(nr)	90	112	Apr-Jul	--	80
Lake Owyhee		489	125	Apr-Sep	--	392
net inflow <u>14/</u>		814	141	Feb-Jul	--	578
<u>Payette River</u>						
Horseshoe Bend <u>15/</u>	(nr)	2150	116	Apr-Sep	--	1860
<u>North Fork</u>						
Cascade <u>16/</u>	(at)	620	110	Apr-Sep	--	564
Banks <u>16/</u>	(nr)	800	110	Apr-Sep	--	726
<u>Weiser River</u>						
Weiser	(nr)	549	98	Mar-Sep	--	558
<u>Salmon River</u>						
Whitebird	(at)	8050	112	Apr-Sep	--	7196
<u>Clearwater River</u>						
Spalding	(at)	8390	97	Apr-Sep	--	8672

(c) Assuming normal meteorological conditions.

† 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average ⁺

GREAT BASINBEAR RIVER

Harer	(at)	301	91	Apr-Sep	--	332
<u>Montpelier Creek</u>						
Montpelier	(nr)	15	121	Apr-Sep	--	12.4

- 1/ Observed flow corrected for storage in Priest Lake.
- 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
- 3/ Corrected for storage in Jackson Lake.
- 4/ Corrected for storage in Jackson Lake and Palisades.
- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
- 6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
- 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- 9/ Combined flow big Wood River nr. Bellevue and Camas Creek nr. Blaine.
- 10/ Corrected for storage in Little Wood Reservoir.
- 11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 12/ Corrected for storage in Anderson Ranch Reservoir.
- 13/ Corrected for storage in Wildhorse Reservoir.
- 14/ From WPRS records of inflow.
- 15/ Corrected for storage in Cascade and Deadwood Reservoirs.
- 16/ Corrected for storage in Cascade Reservoir.

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

SNOW

DRAINAGE BASIN and or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME & DRAINAGE	Elevation					Last Year	Average
Above Burke	Coeur d'Alene	4100	12/31	28	5.2	3.0	9.3*
Antelope Ridge	Owyhee	6180	12/30	20	4.3	0.0	--
Atlanta Summit	Boise	7600	1/6	91	23.5	10.1	15.2*
Bad Bear	Boise	4940	12/29	32	5.4	3.7	5.2*
Bear Canyon	Big Lost	7900	1/6	55	12.7	8.2	--
Benton Meadow	Priest	2370	12/30	10	1.2	0.0	2.9
Benton Spring	Priest	4920	12/30	25	5.9	6.3	8.3
Big Creek Summit	Salmon	6580	12/25	64	18.8	12.2	14.7
Big Springs	Henry's Fork	6400	12/31	43	9.4	6.7	7.8
Black Bear (Mt)	Madison	7950	12/28	70	21.8	13.2	17.3
Bogus Basin	Payette	6340	12/29	36	8.5	5.0	9.6
Bogus Basin Road	Boise	5540	12/29	16	2.7	0.0	2.9*
Boulder Creek	Weiser	5440	12/30	43	7.2	8.2	10.2
Breezy Saddle	Clearwater	5010	1/6	62	11.0	6.0	--
Brundage Mountain	Little Salmon	7560	12/28	101	25.0	18.2	18.9*
Camp Creek	Beaver	5780	12/31	19	3.0	3.0	4.8
Cayuse Airstrip	Clearwater	3500	1/6	33	3.8	1.3	5.1*
Copper Basin	Big Lost	7640	1/6	18	4.4	4.4	--
Cozy Cove	Deadwood	5380	1/5	54	10.6	5.6	7.0
Crater Meadows	Clearwater	5960	1/6	81	17.9	11.9	18.3*
Crooked Fork	Lochsa	3610	12/31	27	5.6	2.6	5.1*
Deadline	Salmon Falls	7400	12/30	51	13.1	5.4	8.7*
Deadline South	Salmon Falls	7450	12/30	43	10.7	--	--
Deadwood Airstrip	Deadwood	5360	1/5	50	9.5	6.2	6.3*
Dollarhide Summit	Big Wood	8420	1/6	73	19.6	8.2	12.4*
Elk Butte	Clearwater	5550	1/6	73	13.4	6.0	--
Emigrant Summit	Bear	7390	12/29	59	12.8	4.2	9.4*
Fairview Guard Sta.	Little Lost	6750	12/31	18	3.4	2.0	1.8*
Fish Lake Airstrip	Lochsa	5650	1/6	78	17.0	9.6	16.1*
Forty-nine Meadows	Clearwater	4830	1/6	61	9.8	6.0	--
Freds Mountain (Wy)	Teton	8150	12/31	67	13.8	6.5	8.6*
Galena	Big Wood	7440	12/30	56	12.7	8.6	7.8
Galena Summit	Big Wood	8780	12/30	63	15.2	9.6	10.4
Garfield Ranger Sta.	Little Wood	6560	12/29	17	4.4	5.2	4.1*
Gibbons Pass (Mt)	Bitterroot	7100	12/28	52	11.2	10.5	9.1
Giveout	Montpelier	6860	1/4	40	7.6	2.2	4.8
Goat Creek (Nv)	Salmon Falls	8880	12/29	41	10.2	2.3	7.8*
Graham Ranch	Big Wood	6270	12/30	37	7.1	6.2	5.6
Grassy Lake (Wy)	Henry's Fork	7265	12/30	70	18.0	10.1	14.4
Hemlock Butte	Clearwater	5810	1/6	104	21.4	7.9	20.8*
Hilts Creek	Little Lost	8000	12/30	34	8.2	6.0	--
Howell Canyon	Marsh Creek	7980	12/30	68	19.5	4.7	10.5
Humboldt Gulch	Coeur D'Alene	4250	12/31	25	4.4	--	--
Island Park	Henry's Fork	6290	12/31	40	7.5	6.1	6.2
Jackson Peak	Boise	7070	1/6	73	18.7	11.1	15.1*
Kilgore	Camas Creek	6320	1/2	27	6.1	4.0	4.5
Kruze Meadow	Clearwater	4780	12/30	18	3.1	--	--
Lake Fork	Payette	5290	1/1	36	6.2	4.9	6.5*
Lakeview Ridge (Mt)	Beaverhead	7400	12/30	17	3.4	3.7	5.0
Langford Flat Creek	Salmon Falls	5980	12/30	18	3.3	--	--
Lolo Pass	Lochsa	5240	12/30	49	12.0	6.7	11.5*
Lookout	Coeur d'Alene	5140	12/30	48	12.2	8.0	13.7
Lost Garfield	Little Lost	6600	12/31	15	3.4	2.0	1.6*
Lost Lake	Clearwater	6110	1/6	92	20.1	15.1	--
Lost-Wood Divide	Big Lost	7900	1/6	64	16.8	9.4	--
Magic Mountain	Rock Creek	6880	12/30	43	11.0	5.4	7.5*
Mascot Mine	Big Wood	7780	1/6	49	11.2	6.8	--
Mill Creek Summit	Salmon	8800	12/30	54	14.7	8.6	13.3*
Montpelier Creek	Montpelier	6540	1/4	33	5.9	1.3	3.4
Moonshine	Little Lost	7440	12/31	26	5.6	4.4	4.3*
Moore's Creek Summit	Boise	6100	12/29	68	15.6	9.2	13.0
Moose Creek	North Fork Salmon	6200	1/4	49	10.6	7.4	6.9*
Morgan Creek	Salmon	7600	12/29	34	7.7	4.3	2.6*
Mount Baldy	Big Wood	8920	12/31	57	14.8	9.0	8.7*
Mud Flat	Owyhee	5730	12/30	23	5.2	1.5	--
Muldoon	Little Wood	6320	12/29	12	2.7	3.0	3.2*
Pierce Ranger Sta.	Clearwater	3080	1/4	32	4.7	0.0	4.2
Pine Creek Pass	Teton	6810	12/30	44	8.8	4.8	6.9
Pole Creek Ranger Sta.	Jarbridge	8360	12/29	39	10.8	4.0	9.1*
Rock Flat Summit	Payette	5310	12/28	32	6.8	6.0	7.1
Saddle Mountain (Mt)	Bitterroot	7940	12/28	53	12.4	11.8	11.1
Savage Pass	Lochsa	6170	12/31	46	11.6	9.6	10.2*
Sawmill Canyon	Little Lost	7000	12/31	25	5.2	3.5	3.3*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.

(A) Aerial observation Water content estimated.

SNOW

DRAINAGE BASIN and/or SNOW COURSE			THIS YEAR			PAST RECORD	
			Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME & DRAINAGE	Elevation					Last Year	Average
Sawtell Mountain	Henrys Fork	8720	12/30	67	20.2	11.8	14.1*
Schweitzer Bowl	Pend Oreille	4800	12/30	46	13.8	10.2	13.0*
Schweitzer Ridge	Pend Oreille	6200	12/30	56	18.0	19.2	20.3*
Secesh Summit	Payette	6520	12/26	63	17.9	13.6	16.6*
Shanghai Summit	Clearwater	4570	1/6	58	10.3	0.0	9.9*
Sherwin	St. Maries	3200	12/31	25	5.2	0.0	5.5*
Soldier Ranger Sta.	Big Wood	5740	1/6	45	8.3	5.3	4.9*
South Mountain	Jordan-Owyhee	6500	12/31	37	10.0	3.0	5.2
State Line	Teton	6660	12/30	37	6.1	4.3	5.9
Stickney Mill	Big Lost	7430	1/6	27	5.3	4.6	--
Swede Peak	Little Wood	7640	12/29	36	9.8	7.1	8.4*
Targhee Pass	Henrys Fork	6980	12/30	29	6.0	3.7	6.2*
Trinity Mountain	Boise	7770	1/6	107	31.6	12.3	15.6*
Twelve Mile Creek	(Mt) Bitterroot	5600	12/29	48	10.7	4.6	8.4
Valley View	Henrys Fork	6680	12/31	27	6.1	4.5	6.4
Vienna Mine	Salmon	8960	1/6	87	24.9	12.3	--
Webb Creek	Clearwater	4720	12/30	20	3.3	--	--
West Branch	Weiser	5560	12/30	46	8.2	9.9	--
Wet Creek Summit	Little Lost	7680	1/4	32	7.0	4.8	4.4*
White Elephant	Henrys Fork	7710	12/30	48	13.1	8.0	8.9*

(b) 1963-1977, 15 year period. * Estimated 1963-77 15 Year Average.
 (A) Aerial observation Water content estimated.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

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